

ATTACHMENT 4

CENTRIFUGAL PUMP BYPASS CHECKLIST

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1. EQUIPMENT ASSEMBLY

- ☐ Mount motor drive correctly, relative to venous reservoir.
- ☐ Check that all electrical connections are secure.
- ☐ Test control module power and display.
- ☐ Check date and integrity of sterile centrifugal pump (and disposable probe) package(s).
- ☐ Check that flow transducer/sensor (and disposable probe) are sized properly.
- ☐ Assemble perfusion circuit in a sterile manner.
- ☐ Allow sufficient tubing length for standby pumping unit.
- ☐ Connect flow transducer/sensor (and disposable probe) to circuit in correct location and flow direction.

2. PRIME PUMP AND CIRCUIT

- ☐ CO₂ flush pump and circuit, if indicated; turn off CO₂.
- ☐ Gravity-prime and debubble pump and perfusion circuit.
- ☐ Check pump for leaks, irregular motion, and noise.
- ☐ Check circuit for visible air.
- ☐ Check that all tubing connections are secure.
- ☐ Clamp pump outlet line completely.
- ☐ Clamp venous return line completely.

3. OPERATING PARAMETERS

- ☐ Calibrate transducers/sensors according to manufacturer's instructions.
- ☐ Set low/high flow alarms.
- ☐ Verify flow alarms.

4. EMERGENCY BACKUP EQUIPMENT

- ☐ Backup power available.
- ☐ Hand crank available.
- ☐ Pump (and disposable probe) available.
- ☐ Control module or roller pump available.

5. PERFUSION

- ☐ Achieve minimum pump speed prior to unclamping lines.
- ☐ Monitor control module for messages and alarms.
- ☐ Monitor perfusion circuit for visible air.
- ☐ Maintain minimum pump speed prior to clamping lines.

6. CLEANUP

- ☐ Turn off power.
- ☐ Discard disposable components.
- ☐ Cover magnetic motor drive.
- ☐ Clean console and transducer/sensor.

7. CHECK EQUIPMENT

- ☐ Inspect and verify that equipment is operational.
- ☐ Maintain indicated preventive maintenance schedule.
- ☐ Recharge batteries to full capacity (if necessary).